

IN THE CLAIMS:

Please amend Claims 1-5 and 8-25 to read as follows. In accordance with the Revised Amendment Format, the status of all claims and the markings in the "Currently Amended" claims are presented below.

1. (Currently Amended) A printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, said printhead being mounted on said carriage, said printing apparatus comprising:

means for getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

means for setting a carriage scanning period required to start printing of the next line after completion of printing in said the preceding line so as to be become substantially equal to said printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line; and

means for driving said carriage to scan depending upon a period set by said carriage scanning period setting means.

2. (Currently Amended) A printing apparatus as claimed in Claim 1, scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, said

~~printhead being mounted on said carriage, said printing apparatus comprising:~~

~~means for getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;~~

~~means for setting a carriage scanning period required to start printing of the next line after completion of printing in said preceding line so as to be substantially equal to said printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line; and~~

~~means for driving said carriage to scan depending upon a period set by said carriage scanning period setting means,~~

wherein said carriage scanning period includes at least a first carriage scanning period required for the carriage to reach a predetermined position after completion of printing of the preceding line and a second carriage scanning period required for the carriage to reach the predetermined period at the printing start position of the next line,

said carriage scanning period setting means takes a difference between a said printing medium feeding period and a sum of said first carriage scanning period and said second carriage scanning period, as a waiting period when a sum of said first carriage scanning period and said second carriage scanning period is less than said printing medium feeding period, and

said carriage driving means maintains stopping the carriage for said waiting period after deceleration and stopping of the carriage according to said first carriage scanning period after completion of printing of the preceding line.

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3. (Currently Amended) A printing apparatus as claimed in Claim 1,

scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, said printhead being mounted on said carriage, said printing apparatus comprising:

means for getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

means for setting a carriage scanning period required to start printing of the next line after completion of printing in said preceding line so as to be substantially equal to said printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line; and

means for driving said carriage to scan depending upon a period set by said carriage scanning period setting means;

wherein said carriage scanning period includes at least a first carriage scanning period required for the carriage to reach a predetermined position after completion of printing of the preceding line and a second carriage scanning period required for the carriage to reach the predetermined period at the printing start position of the next line,

said carriage scanning period setting means sets a scanning speed of said carriage so that a sum of said first carriage scanning period and said second carriage scanning period becomes equal to said printing medium feeding period, and

said carriage driving means drives a carriage scanning depending upon the scanning speed of the carriage set by said carriage scanning period setting means.

4. (Currently Amended) A printing apparatus scanning a printing head

over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, said printhead being mounted on said carriage, said printing apparatus comprising:

means for getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

means for getting information relating to a carriage scanning period from an end position of printing of the preceding line to a start position of printing of the next line in a scanning direction of the carriage; and

means for driving said carriage to scan to start printing of the next line, after completion of printing in said the preceding line, depending upon a relationship between said carriage scanning period and said printing medium feeding period,

wherein said carriage driving means starts printing of said next line without stopping said carriage subsequent to the printing of said preceding line when said carriage scanning period is more than said printing medium feeding period and printing directions of the preceding line and the next line are of the same direction.

5. (Currently Amended) A printing apparatus as claimed in Claim 4, scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, said printhead being mounted on said carriage, said printing apparatus comprising:

means for getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after

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completion of printing in a preceding line in a preceding scan;

means for getting information relating to a carriage scanning period from an end position of printing of the preceding line to a start position of printing of the next line in a scanning direction of the carriage; and

means for driving said carriage to scan to start printing of the next line, after completion of printing in said preceding line, depending upon a relationship between said carriage scanning period and said printing medium feeding period,

wherein said carriage driving means does not vary a scanning speed of said carriage even after completion of printing of said the preceding line when said carriage scanning period is longer than said printing medium feeding period.

6. (Original) A printing apparatus as claimed in Claim 4, wherein said carriage driving means provides a zone to stop the carriage for a predetermined period so that said carriage scanning period becomes equal to said printing medium feeding period when said carriage scanning period is less than said printing medium feeding period, and accelerates said carriage to reach the printing start position at a predetermined speed after decelerating said carriage to stop for the predetermined period after completion of printing of the preceding line.

7. (Previously Amended) A printing apparatus as claimed in Claim 4, wherein said carriage driving means provides a zone to decelerate the carriage for a predetermined period so that said carriage scanning period becomes equal to said printing medium feeding period when said carriage scanning period is less than said printing medium feeding period, and accelerates said carriage to reach the printing start position at a predetermined speed after scanning said carriage at a decelerated speed after completion of

printing of the preceding line.

8. (Currently Amended) A printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, said printhead being mounted on said carriage, said printing apparatus comprising:

means for getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

means for setting a carriage scanning period required to start printing of the next line after completion of printing in ~~said~~ the preceding line in said preceding scan so as to ~~be~~ become substantially equal to said printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line; and

means for driving said carriage to scan depending upon a period set by said carriage scanning period setting means.

9. (Currently Amended) A printing apparatus as claimed in Claim 8, scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, said printhead being mounted on said carriage, said printing apparatus comprising:

~~means for getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after~~

~~completion of printing in a preceding line in a preceding scan;~~
~~means for setting a carriage scanning period required to start printing~~
~~of the next line after completion of printing in said preceding line in said preceding scan so~~
~~as to be substantially equal to said printing medium feeding period depending upon a~~
~~printing completion position of the preceding line and the printing start position of the next~~
~~line; and~~

~~means for driving said carriage to scan depending upon a period set~~
~~by said carriage scanning period setting means;~~

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wherin said carriage scanning period includes at least a first
carriage scanning period required for stopping the carriage at a predetermined position after
completion of printing of the preceding line, a carriage return period required for effecting
a scanning in said predetermined direction and returning the carriage in reverse direction to
stop at the predetermined position, and a second carriage scanning period required for the
carriage to reach at the predetermined speed to the printing start position of the next line
from a predetermined position stopping after carriage return,

said carriage scanning period setting means takes a difference
between a sum of said first carriage scanning period and said carriage return period and
said second carriage scanning period, and a printing medium feeding period as a waiting
period when a sum of said first carriage scanning period and said carriage return period and
said second carriage scanning period is less than said printing medium feeding period,

said carriage driving means maintains stopping the carriage for said
waiting period after carriage return.

10. (Currently Amended) A printing apparatus scanning a printing head
over a printing medium a plurality of times, to perform printing upon the print medium

during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, said printhead being mounted on said carriage, said printing apparatus comprising:

means for getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

means for setting a carriage scanning period required to start printing of the next line after completion of printing in said the preceding line in a preceding scan so as to become equal to said printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line;
and

means for driving said carriage to scan depending upon a period set by said carriage scanning period setting means.

11. (Currently Amended) A printing apparatus as claimed in Claim 10, scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, said printhead being mounted on said carriage, said printing apparatus comprising:

means for getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

means for setting a carriage scanning period required to start printing of the next line after completion of printing in said preceding line in a preceding scan so as to become equal to said printing medium feeding period depending upon a printing

~~completion position of the preceding line and the printing start position of the next line;~~

and

~~means for driving said carriage to scan depending upon a period set by said carriage scanning period setting means;~~

wherein said carriage scanning period includes at least a first carriage scanning period required for the carriage to stop at a predetermined position after completion of printing in a predetermined direction, a recovery process period required for performing recovery process of the printing head at the predetermined position and a second carriage scanning period required for the carriage to reach the printing start position of the next line by scanning the carriage in a direction opposite to scanning of said predetermined direction from said predetermined position after finishing of the recovery process,

said carriage scanning period setting means takes a difference between a sum of said first carriage scanning period, a recovery period and said second carriage scanning period, and said printing medium feeding period as a waiting period when a sum of said first carriage scanning period, said recovery period and said second carriage scanning period is less than said printing medium feeding period,

said carriage driving means stops the carriage for said waiting period after finishing said recovery process.

12. (Currently Amended) A printing apparatus as claimed in Claim 10, scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, said printhead being mounted on said carriage, said printing apparatus comprising:

~~means for getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;~~

~~means for setting a carriage scanning period required to start printing of the next line after completion of printing in said preceding line in a preceding scan so as to become equal to said printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line;~~

and

~~means for driving said carriage to scan depending upon a period set by said carriage scanning period setting means;~~

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wherein said carriage scanning period includes at least a first carriage scanning period required for the carriage to stop at a predetermined position after completion of printing in a predetermined direction, a recovery process period required for performing recovery process of the printing head at the predetermined position and a second carriage scanning period required for the carriage to reach the printing start position of the next line by scanning the carriage in a direction opposite to scanning of said predetermined direction from said predetermined position after finishing of the recovery process,

said carriage scanning period setting means takes said printing medium a difference between a sum of said first carriage scanning period, a recovery period and said second carriage scanning period, and said printing medium feeding period as a waiting period when a sum of said first carriage scanning period, said recovery period and said second carriage scanning period is less than said printing medium feeding period,

said carriage driving means for performing said recovery process after stopping the carriage for said waiting period.

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13. (Currently Amended) A carriage scan driving method using a printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, the carriage being used to mount the print head, said printing apparatus comprising:

a step of getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

a step of setting a carriage scanning period required to start printing of the next line after completion of printing in the preceding line so as to ~~be~~ become substantially equal to ~~said~~ the printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line; and

a step of driving the carriage to travel depending upon a period set by in said carriage scanning period setting step.

14. (Currently Amended) A carriage scan driving method as claimed in Claim 13, ~~using a printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, the carriage being used to mount the print head, said printing apparatus comprising:~~

~~a step of getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after~~

~~completion of printing in a preceding line in a preceding scan;~~

~~a step of setting a carriage scanning period required to start printing of the next line after completion of printing in the preceding line so as to be substantially equal to said printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line; and~~

~~a step of driving the carriage to travel depending upon a period set by said carriage scanning period setting step;~~

wherein said the carriage scanning period includes at least a first carriage scanning period required for the carriage to reach a predetermined position after completion of printing of the preceding line and a second carriage scanning period required for the carriage to reach the predetermined period at the printing start position of the next line,

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said carriage scanning period setting step ~~takes~~ includes taking a difference between a the printing medium feeding period and a sum of the first carriage scanning period and the second carriage scanning period, as a waiting period when a sum of said the first carriage scanning period and said the second carriage scanning period is less than said the printing medium feeding period, and

in said carriage driving step, ~~maintains~~ stopping the carriage is stopped for said the waiting period after deceleration and stopping of the carriage according to said the first carriage scanning period after completion of printing of the preceding line.

15. (Currently Amended) A carriage scan driving method as claimed in Claim 13, using a printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan

~~and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, the carriage being used to mount the print head, said printing apparatus comprising:~~

~~a step of getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;~~

~~a step of setting a carriage scanning period required to start printing of the next line after completion of printing in the preceding line so as to be substantially equal to said printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line; and~~

~~a step of driving the carriage to travel depending upon a period set by said carriage scanning period setting step,~~

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~~wherein said the carriage scanning period includes at least a first carriage scanning period required for the carriage to reach a predetermined position after completion of printing of the preceding line and a second carriage scanning period required for the carriage to reach the predetermined period at the printing start position of the next line,~~

~~said carriage scanning period setting step sets includes setting a scanning speed of said the carriage so that a sum of said the first carriage scanning period and said the second carriage scanning period becomes equal to said the printing medium feeding period, and~~

~~said carriage driving step controls includes controlling carriage scanning depending upon a scanning speed of the carriage set by in said carriage scanning period setting step.~~

16. (Currently Amended) A carriage scan driving method using a printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, the carriage being used to mount said the print head, said printing apparatus method comprising:

a step of getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

a step of getting information relating to a scanning period of the carriage from completion position of printing of the preceding line to start position of printing of next line in a scanning direction of the carriage; and

a step of driving said the carriage to scan to start printing of the next line after completion of printing in said the preceding line depending upon a relationship between said the carriage scanning period and said the printing medium feeding period,

wherein, in said step of driving said carriage printing of the next line is begun without stopping the carriage subsequent to the printing of the preceding line when the carriage scanning period is more than the printing medium feeding period and printing directions of the preceding line and the next line are of the same direction.

17. (Currently Amended) A carriage scan driving method as claimed in Claim 16, using a printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, the carriage being used to mount said print head, said

printing apparatus comprising:

a step of getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

a step of getting information relating to a scanning period of the carriage from completion position of printing of the preceding line to start position of printing of next line in a scanning direction of the carriage; and

a step of driving said carriage to scan to start printing of the next line after completion of printing in said preceding line depending upon a relationship between said carriage scanning period and said printing medium feeding period,

wherein, in said carriage driving step, does not vary a scanning speed of said the carriage is not varied even after completion of printing of the preceding line when said the carriage scanning period is longer than said the printing medium feeding period.

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18. (Currently Amended) A carriage scan driving method as claimed in Claim 16, wherein said carriage driving step provides includes providing a zone to stop the carriage for a predetermined period so that said the carriage scanning period becomes equal to said the printing medium feeding period when said the carriage scanning period is less than said the printing medium feeding period, and accelerate includes accelerating said the carriage to reach the printing start position at a predetermined speed after decelerating said the carriage to stop for the predetermined period after completion of printing of the preceding line.

19. (Currently Amended) A carriage scan driving method as claimed in

Claim 16, wherein said carriage driving step ~~provides~~ includes providing a zone to decelerate the carriage for a predetermined period so that ~~said the~~ carriage scanning period becomes equal to ~~said the~~ printing medium feeding period when ~~said the~~ carriage scanning period is less than ~~said the~~ printing medium feeding period, and ~~accelerate said accelerating~~ ~~the~~ carriage to reach the printing start position at a predetermined speed after scanning ~~said the~~ carriage at decelerated speed after completion of printing of the preceding line.

20. (Currently Amended) A carriage scan driving method using a printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, the carriage being used to mount ~~said the~~ print head, said ~~printing apparatus~~ method comprising:

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a step of getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

a step of setting a carriage scanning period required to start printing of the next line after completion of printing in ~~said the~~ preceding line in ~~said the~~ preceding scan so as to ~~be become~~ substantially equal to ~~said the~~ printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line; and

a step of driving ~~said the~~ carriage to scan depending upon a period set by in said carriage scanning period setting step.

21. (Currently Amended) A carriage scan driving method as claimed in

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Claim 20, using a printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage, the carriage being used to mount said print head, said printing apparatus comprising:

a step of getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

a step of setting a carriage scanning period required to start printing of the next line after completion of printing in said preceding line in said preceding scan so as to be substantially equal to said printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line; and

a step of driving said carriage to scan depending upon a period set by said carriage scanning period setting step;

wherein said the carriage scanning period includes at least a first carriage scanning period required for stopping the carriage at a predetermined position after completion of printing of the preceding line, a carriage return period required for effecting scanning in said the predetermined direction and returning the carriage in reverse direction to stop at the predetermined position, and a second carriage scanning period required for the carriage to reach at the predetermined speed to the printing start position of the next line from a predetermined position stopping after carriage return,

said carriage scanning period setting step takes includes taking a difference between a sum of said the first carriage scanning period and said the carriage return period and said the second carriage scanning period, and a printing medium feeding

period as a waiting period when a sum of said the first carriage scanning period and said the carriage return period and said the second carriage scanning period is less than said the printing medium feeding period, and

in said carriage driving step, maintains stopping the carriage is stopped for said the waiting period after carriage return.

22. (Currently Amended) A carriage scan driving method using a printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage the carriage being used to mount the print head, wherein a recovery process of the printing head at a predetermined position is performed per scan in a predetermined direction of said carriage, said printing apparatus method comprising:

a step of getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

a step of setting a carriage scanning period required to start printing of the next line after completion of printing in said the preceding line in a preceding scan so as to become equal to said the printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line; and

a step of driving said the carriage to scan depending upon a period set by in said carriage scanning period setting step.

23. (Currently Amended) A carriage scan driving method as claimed in

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Claim 22, using a printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage the carriage being used to mount the print head, wherein a recovery process of the printing head at a predetermined position is performed per scan in a predetermined direction of said carriage, said printing apparatus comprising:

a step of getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

a step of setting a carriage scanning period required to start printing of the next line after completion of printing in said preceding line in a preceding scan so as to become equal to said printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line;

and

a step of driving said carriage to scan depending upon a period set by said carriage scanning period setting step;

wherein said the carriage scanning period includes at least a first carriage scanning period required for the carriage to stop at a predetermined position after completion of printing in a predetermined direction, a recovery process period required for performing recovery process of the printing head at the predetermined position and a second carriage scanning period required for the carriage to reach the printing start position of the next line by scanning the carriage in a direction opposite to scanning of said the predetermined direction from said predetermined position after finishing of the recovery process,

said carriage scanning period setting step takes said includes taking

the printing medium a difference between a sum of said the first carriage scanning period, a recovery period and said the second carriage scanning period, and said the printing medium feeding period as a waiting period when a sum of said the first carriage scanning period, said the recovery period and said the second carriage scanning period is less than said the printing medium feeding period, and

in said carriage driving step, stops the carriage is stopped for said the waiting period after said the recovery process.

24. (Currently Amended) A carriage scan driving method as claimed in Claim 22, using a printing apparatus scanning a printing head over a printing medium a plurality of times, to perform printing upon the print medium during each respective scan and to feed the printing medium a predetermined amount in a direction different from a scanning direction of a carriage the carriage being used to mount the print head, wherein a recovery process of the printing head at a predetermined position is performed per scan in a predetermined direction of said carriage, said printing apparatus comprising:

a step of getting information relating to a printing medium feeding period required for feeding the printing medium for the predetermined amount after completion of printing in a preceding line in a preceding scan;

a step of setting a carriage scanning period required to start printing of the next line after completion of printing in said preceding line in a preceding scan so as to become equal to said printing medium feeding period depending upon a printing completion position of the preceding line and the printing start position of the next line;

and

a step of driving said carriage to scan depending upon a period set by said carriage scanning period setting step;

wherein said the carriage scanning period includes at least a first carriage scanning period required for the carriage to stop at a predetermined position after completion of printing in a predetermined direction, a recovery process period required for performing recovery process of the printing head at the predetermined position and a second carriage scanning period required for the carriage to reach the printing start position of the next line by scanning the carriage in a direction opposite to a scanning of said the predetermined direction from said the predetermined position after finishing of the recovery process,

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said carriage scanning period setting step takes includes taking a difference between a sum of said the first carriage scanning period, a recovery period and said the second carriage scanning period, and said the printing medium feeding period as a waiting period when a sum of said the first carriage scanning period, said the recovery period and said the second carriage scanning period is less than said the printing medium feeding period,

said carriage driving step performs said includes performing the recovery process after stopping the carriage for said the waiting period.

25. (Currently Amended) A printing method performing printing on a printing medium with a primary scan of a printing head over a printing medium a plurality of times, and with an auxiliary scan of said the printing medium and said the carriage in a direction different from the direction of the primary scan, the method comprising:

a printing step, of performing printing in a leading primary scan;
a step of performing said the auxiliary scan after completion of said printing step and before initiation of printing step in a succeeding primary scan;
wherein a period required for said the primary scan from a printing

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completion position of a printing step in a said leading primary scan to a printing start position of a printing step in a next primary scan is to become substantially equal to a period required for said the auxiliary scan.